

BACHELOR OF MECHANICAL ENGINEERING WITH HONOURS

Introduction

Bachelor of Mechanical Engineering with Honours is a 4-year program, where students are expected to complete 136 credits of study before graduation. Students are also required to undergo industrial training for at least 10 weeks during the semester break in the Second Half of Year 3. The content and structure of the curriculum for this program has been designed in accordance with the requirements of stakeholders and objectives and learning outcomes that have been set. The main objective of this program is to produce graduates of trained engineers in mechanical engineering with additional knowledge in the field of manufacturing engineering.

Mechanical engineers are responsible for mechanical design, combustion and fuel technology, heat transfer, materials selection, manufacturing process, automatic control, security products and the impact of technology on society. Mechanical engineers also have to ensure that the design of a device is made with efficient, effective, dependable and economical. In addition, they inspire, plan, design and supervise manufacturing, distribution and operation of various types of devices, machines and systems for material processing, transportation, maintenance and other purposes.

Career Opportunities

Job opportunities for graduates in Mechanical Engineering is extensive and covers employers of small and medium organizations, multinational corporations, and government departments. Mechanical industry provides jobs in the field of design, research and development, manufacturing, management, marketing, management, sales and technical services. Previous records show that the graduates of the Department of Mechanical and Manufacturing Engineering often get relevant jobs.

Admission Requirements

Bachelor of Mechanical Engineering with Honours (UP6521001) 8 Semester

Minimum Qualification STPM	Minimum Qualification for Matriculation/ Foundation	Minimum Qualification for Diploma/ Equivalent
<p>Meet General University Requirements and PROGRAM SPECIFIC REQUIREMENT</p> <p>Achieve at least a CGPA of 2.80; and Achieve at least a Grade B at the STPM level in the following subjects:</p> <ul style="list-style-type: none"> • Additional Mathematics; and • Physics; and <p>Achieve at least BAND 3.0 in the Malaysian University English Test (MUET) for examinations starting from Session 1 of 2021 or BAND 3 for examinations up to the year 2020;</p> <p>or</p> <p>Achieve at least BAND 2.0 in the Malaysian University English Test (MUET) for examinations starting from Session 1 of 2021 or BAND 2 for examinations up to the year 2020, and at least a Grade C in the English subject at the SPM level; and</p> <p>No physical disability that hinders practical work</p>	<p>Meet General University Requirements and PROGRAM SPECIFIC REQUIREMENT</p> <p>Achieve at least a CGPA of 2.80; and Achieve at least a Grade B at the Matriculation/ Foundation level in the following subjects:</p> <ul style="list-style-type: none"> • Mathematics; and • Physics / Chemistry / Basic Engineering; and <p>Achieve at least BAND 3.0 in the Malaysian University English Test (MUET) for examinations starting from Session 1 of 2021 or BAND 3 for examinations up to the year 2020;</p> <p>or</p> <p>Achieve at least BAND 2.0 in the Malaysian University English Test (MUET) for examinations starting from Session 1 of 2021 or BAND 2 for examinations up to the year 2020, and at least a Grade C in the English subject at the SPM level; and</p> <p>No physical disability that hinders practical work.</p>	<p>Meet General University Requirements and PROGRAM SPECIFIC REQUIREMENT</p> <p>Hold a Diploma in a relevant field with at least a CGPA of 2.80 or another qualification recognized by the UPM Senate;</p> <p>and</p> <p>Achieve at least BAND 3.0 in the Malaysian University English Test (MUET) for examinations starting from Session 1 of 2021 or BAND 3 for examinations up to the year 2020;</p> <p>or</p> <p>Achieve at least BAND 2.0 in the Malaysian University English Test (MUET) for examinations starting from Session 1 of 2021 or BAND 2 for examinations up to the year 2020, and at least a Grade C in the English subject at the SPM level; and</p> <p>No physical disability that hinders practical work.</p>

Curriculum (2021 – 2025)

The courses offered are divided into three categories: General Courses, Core Courses, and Elective Courses:

Curriculum Components	EAC Requirements (minimum credit hours)	Curriculum Bachelor of Mechanical Engineering with Honours	Percentage (%)
General Courses	No min set value	21	15.5
Core Courses	90	103	75.7
Elective Courses		12	8.8
Total	135	136	100%

Total Credit Hours for Graduation : 136

Duration of Study : 8 semesters (4 years)

Tuition Fees

Code	Programme	Average Cost Per Student Per Year	Tuition Fees Paid by Students Per Year	Government Subsidy to Students Per Year
64-2	Bachelor of Mechanical with Honours	RM26,315.00	RM4,489.00	RM21,826.00

* Subject to change from time to time.

Contact Officer

Professor Ir. Dr. Raizal Saifulnaz Muhammad Rashid
Deputy Dean (Academic, Student Affairs, and Alumni)

Tel: +603-9769 6272

E-mail: eng.bttda@upm.edu.my

Mrs Siti Suriani Sarpan

Assistant Registrar

Tel: +603-9769 6275

E-mail: s_suriani@upm.edu.my



**FAKULTI
KEJURUTERAAN**
FACULTY OF ENGINEERING
فاكولتي كجوروتراان



Address

Deputy Dean Office (Academic, Student Affairs, and Alumni)

Faculty of Engineering

Universiti Putra Malaysia

43400 UPM Serdang

Selangor, Malaysia

Tel.: +603-8946 6272 / 6273

Version 6 May 2024